

## 250mm Terracotta tile Installation Instructions – solid and flexible shaft kits

**Safety** - When installing a SolarBright™ skylight system ensure that all safety measures and precautions are taken. The installation of the product will require using power tools, climbing on the roof and possibly working in a confined space. The product has been designed to be installed by an average handyman, however the installer must be competent to carry out the task safely and correctly.

### Positioning the skylight

1. Mark the ceiling where SolarBright skylight is required by pushing a small pin or nail between the ceiling joists. A stud finder can be used to locate ceiling joists and determine the centre point between them.
2. From inside the roof space locate the nail and ensure that there is enough clearance to fit the product, mark the point from inside the roof directly above the nail. A plum bob can be used for determining the point.
3. In order to be able to locate the selected position from outside the roof insert wire or other object between the tiles or just move a tile if possible. In case of metal roof drill a small hole through the roof and insert a wire or other object through the hole (or drill tech screw up through roof).
4. From the top of the roof locate the position of the roof flashing by finding the wire or hole / tech screw that previously was left from inside. Ensure the flashing can be fitted in the position. Remember that SolarBright solid shaft kits come with a top and bottom angle adaptor as standard. The angle adaptors will allow you to angle the shaft up to the roof turret. They also assist to relocate the flashing if required or adjust the angle down to the appropriate ceiling position if required.
5. Fit the roof profile as per the following instructions and refer to the roof profile pictures.

### Installation of the 250mm Terracotta roof profile

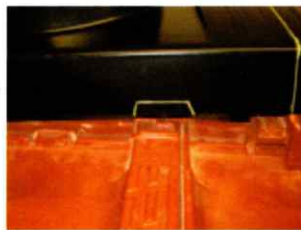
1. Remove 2 roof tiles where the skylight is going to be installed. (See pic 1)
2. Place the Solarbright profile on top of the hole and mark the front skirt of the profile with a pencil/texta. (See pic 2)
3. Remember that the width of Solarbright flashing will need to be adjusted to suit different size terracotta tiles. This can be done by cutting off section of the long side of the profile using the lines showing on the surface as a guide for the cutting line. (see pic 4)
4. Cut out the skirt of the Solarbright profile tile to sit down neatly back on the tiles. (See pic 5)
5. Place the flashing in position and mark the 3 tiles above from inside of the flashing turret. (See pic 6 & 7) Remove the flashing and cut the tiles as marked, using angle grinder with masonry blade. (See pic 8)
6. Place the Solarbright profile in position. Under the top tile.
7. Insert a cable tie inside the hole in lug of the underside of Solarbright profile and tie down around the tile timber batten.



PIC 1



PIC 2



PIC 3



PIC 4



PIC5



PIC 6



PIC 7



PIC 8



## Ceiling Fitting Installation

1. Using the template provided (plastic strip with holes at either end), centre one hole in the middle of the ceiling location where the ceiling diffuser is to be installed and hold with a screwdriver. Using a pencil or marker, trace a circle in the outer hole of the template on the ceiling and then cut out the circle in the ceiling with a gyprock/reciprocating saw.
2. Insert the ceiling ring into the hole and secure it to the ceiling using the screws and angle anchors.

### Assembly of solid shaft skylight and dome (refer to instruction following for flexible shaft skylights)

3. Peel the protective cover liner from inside the top angle adaptor, Insert the top angle adaptor into the roof profile and insure that it sits flat on the top of the turret of the profile. (Turn the bottom section of the top angle and adjust to face the ceiling hole if required).
4. Note: for Maxlight series skylights - fit the dome over the turret and pre-drill four holes in the turret where the dome holes align. Using the four screws with rubber washers, secure the dome onto the turret through the predrilled holes.
5. Note: for Spectrum and Budget range skylights - attach the Mohair seal liner provided around the bottom inside edge of the dome just below the four holes). Insert the 4 x 10mm rubber grommet washers into the four predrilled dome holes and then tech screw the dome securely to the turret with the four tech screws provided.
6. From inside the roof measure the distance between the bottom of the top angle and the ceiling ring fitting - this will determine the rest of the length of tube required. (Don't forget to allow for the tubes overlapping).
7. Peel the protective cover liner from inside of the Bottom angle adaptor and the extension tube(s).
8. Join any extension tubes that may be required in addition to the bottom angle to form a cylinder. To do this, align one of the two notches (at the top of the tube and at the bottom) and clip the tube together. You will notice there is a choice of using a shorter notch or longer one. Use the longer notch at the top of the tube and the shorter notch at the bottom of the tube. This is so the top of the tube will become smaller so that it can slide into the tube above while the bottom of the tube will become slightly larger, so that it can slide over the next tubing underneath. When more than 1 extension is required repeat this step with the second extension until you reach the bottom angle adaptor.
9. Attach the bottom adaptor to the extension tube(s) or directly to the bottom angle if extensions are not required. Slide the top section of the extension tube / bottom angle adaptor inside the top angle adaptor then pull the tubing down slowly so the bottom adaptor can rest around the neck of the ceiling ring. Using the foil tape provided, tape all joints between the tubes ensuring they are well sealed.
10. Once tubing has been secured in place and sealed with foil tape, return to underside of ceiling and align the lugs on the diffuser and push up into the ceiling ring grooves. Twist the diffuser clockwise to lock into place.

### Assembly of flexible shaft skylight and dome

1. Take the end of the flexible skylight duct with the white plastic ring attached and tape the ring securely to the upper ring edge of the ceiling ring inside the ceiling.
2. Pull the flexible shaft upwards through the turret of the roof profile until the shaft is tight and rigid with minimal slack. Cut off any excess that is not required and tape the shaft securely to the turret. Note: you can overlap the shaft over and down the outside of the turret slightly to ensure it will not become loose before installing the dome over the turret. Go to point no.5 in the instructions above to install the dome.